

## EAST Search History

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L1	674	(540/597).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/07 10:54
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L3	205	(540/599).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/07 10:55
L4	191	(540/601).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/07 10:55
L5	420	(514/217.03).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/07 10:55
L6	362	(514/217.04).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/07 10:55
L7	329	(514/217.06).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/08/07 10:56
L8	1921	I1 or I2 or I3 or I4 or I5 or I6 or I7	US-PGPUB; USPAT	OR	OFF	2006/08/07 10:56
L9	828	I8 and (nicotinic receptor\$)	US-PGPUB; USPAT	OR	OFF	2006/08/07 10:56
L10	25	I8 and ("azabicyclo[3.2.1]octane")	US-PGPUB; USPAT	OR	OFF	2006/08/07 10:57



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1: Curr Drug Targets CNS Neurol Disord. 2002 Aug;1(4):433-42.

Links

**The importance of nicotinic acetylcholine receptors in schizophrenia, bipolar disorder and Tourette's syndrome.**

**McEvoy JP, Allen TB.**

Duke University Medical Center, Durham, NC, USA.  
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As the prevalence of tobacco use has decreased, it has become clear that individuals with mental illness comprise a substantial portion of the remaining smokers. Seventy to eighty percent of patients with schizophrenia smoke and their smoking is established before their first psychotic episodes or the initiation of treatment. Many patients with schizophrenia, and approximately 50% of their first degree relatives have abnormalities in auditory sensory gating and/or smooth pursuit eye movements. These abnormalities are corrected by nicotine, and they appear to be transmitted as autosomal dominant traits. Evidence is accumulating that these abnormalities reflect genetic variations in nicotine receptor number and function, that may increase susceptibility for schizophrenia. Recent studies suggest that bupropion, added to treatment with an atypical antipsychotic, can enhance the likelihood of smoking cessation or reduction in patients with schizophrenia. The prevalence of smoking is also substantially increased among patients with bipolar disorder, perhaps especially so among those with psychotic features. Nicotine delivered by gum or transdermal patch can provide short term relief for exacerbations of Tourette's Syndrome, but its use is limited by frequent toxicity, primarily nausea.

PMID: 12769615 [PubMed - indexed for MEDLINE]

#### Related Links

Comorbid bipolar disorder in Tourette's syndrome responds to the nicotinic receptor antagonist mecamylamine [Bipolar Psychiatry. 2000]

Nicotinic systems in central nervous systems disease: degenerative disorders and bupropion [Acta Helv. 2000]

Nicotine, brain nicotinic receptors, and neuropsychiatry [Advances. 2000]

Alpha-7 nicotinic receptor agonists: potential new candidates for the treatment of schizophrenia [Berl. 2004]

Nicotine dependence in schizophrenia: clinical phenomena and laboratory findings [Psychiatry. 1998]

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